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U. S. Department of Agriculture

## 1940 SEMI- ANNUAL

## NAVAL STORES REPORT

on

Production, Distribution, Consumption and Stocks

of

## TURPENTINE AND ROSIN

of the

## UNITED STATES

Apr. 1 1940 - Sept. 30. 1940.

Issued Nov. 15, 1940

Compiled by

C. F. Speh

Naval Stores Research Division



#### FOREWORD

This is the fifth semi-annual naval stores report on production, consumption and stocks of naval stores.

If the production figures for the half-year are used as a basis for estimating this season's probable total production, the fact that gum naval stores production is seasonal should be borne in mind. Normally, approximately 72 percent of the total annual gum crop is produced from the beginning of April to the end of September. This year unusual weather conditions apparently have affected this percentage for gum naval stores production, and it is generally accepted by the naval stores industry that the 1940-41 season will close earlier than usual. Wood naval stores production, on the other hand, is not seasonal, but is based largely upon probable consumer demand.

As in previous reports, carryover (stocks) of turpentine and rosin is separated into gum and wood products. Stocks of wood rosin do not include so-called "B wood rosin." While sulphate wood turpentine is carried in the regular production and carryover tables, data on "liquid rosin" are in a table separate from gum and wood rosins. Pending the selection of a proper term, we continue to refer to the mixture of resin and fatty acids recovered from the acidulated soap curds obtained in the production of sulphate pulp as "liquid rosin." The term "sulphate wood rosin" refers to the resin acids constituting approximately 42 percent of "liquid rosin."

The data on production, consumption and stocks are expressed in commercial units: For turpentine —— barrels of 50 gage gallons; and for rosin —— barrels of approximately 500 pounds gross weight. Carryover (stocks) figures do not include gum and wood turpentines producible from crude gum and crude steam distilled or destructively distilled wood turpentine on hand.

Statistics on foreign production, stocks and exports have been omitted from this issue due to lack of complete and accurate data.

These reports are designed to be of use to the industry --- producer, factor, distributor and consumer. Every effort is made to obtain complete and accurate information but the responsibility for completeness, accuracy and promptness of issue depends upon the cooperation of those reporting. In studying the data given in this, as well as in the previous reports, it should be borne in mind that the Bureau of Agricultural Chemistry and Engineering merely assembles the figures from the individual reports received.

The date of issue reflects the promptness of receipt of reports. It is our hope that these reports can be issued within 30 days after the end of the six-month period to which they apply.

The Bureau of Agricultural Chemistry and Engineering extends its thanks to those producers, factors, distributors and consumers who have so kindly cooperated in furnishing the requested reports. The Bureau is particularly grateful for the continued cooperation and constructive comment of Mr. J. E. Lockwood.



#### SUMMARY OF TURPENTINE

(SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 50 gals.)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

1940-41 1939-40 6 mos. (Apr.-Sept.) 6 mos. (Apr.-Sept.) Total Gum Wood Total Gum Wood TABLE la - SUPPLY AND DISTRIBUTION U.S. Carryover Apr. 11 220,267 167,943 52,324 314,323 272,658 41,665 350,192 247,497 102,695 354,702 270,167 84,535 Production2 Imports3 11,008 11,008 11,664 11,664 \_\_\_\_ Available Supply 581,467 426,448 155,019 680,689 554,489 126,200 Less Carryover Sept.304 247,539 198,330 49,209 293,269 267,860 25,409 Appar. Total Consumption 333,928 228,118 105,810 387,420 286,629 100,791 Less Exports<sup>5</sup> 67,742 53,207 14,535 131,125 108,866 22,259 Appar. U.S. Consumption 266,186 174,911 91,275 256,295 177,763 78,532 TABLE 2a - CARRYOVER (Stocks) U.S. Carryover, Apr. 1 220,267 167,943 52.324 314,323 272,658 41,665 U.S. Carryover, Sept. 30 247,539 198,330 49,209 293,269 267,860 25,409 Increase 27,272 30,387

3,115

21,054

4,798

16,256

Decrease

<sup>(1)</sup> Table la, 1939-40 Annual Naval Stores Report.

<sup>(2)</sup> Table 5a.

<sup>(3)</sup> Table 7.

<sup>(4)</sup> Table 4a.

<sup>(5)</sup> Tables 9a - 11a.

### SUMMARY OF ROSIN

SUPPLY, DISTRIBUTION AND CARRYOVER (Bbls. 500 lbs. gross)
(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

	6 mos	1940-41 s. (AprSep	ot.)	6 mc	<u>1939-40</u> s. (AprSe	pt.)
	Total	Gum	Wood	Total	Gum	Wood
	TABLE	lb - SUPPLY	AND DISTRI	BUTION		
U.S. Carryover	1,569,396	1,409,649	159,747	1,621,970	1,399,124	222,846
Production2		819,9924		1,348,1834		
Imports <sup>3</sup>		The state of the s	0	2,175	2,175	0
Available Supply Less Carryover	2,865,515	2,229,641	635,874	2,972,328	2,319,072	653,256
Sept 30	1,838,945	1,650,137	188,808	1,728,166	1,606,093	122,073
Appar.Tot.Consump-	3 000 570	F70 F04	4.457	1 044 100	710 070	573 107
tion Less Exports	1,026,570 305,789	579,504 175,110	447,066 130,679	1,244,162 467,754	712,979 289,610	531,183 178,144
book maper to	CONTRACTOR	The same with the same and the				
Appar.U.S.Consump-						
tion	720,781	404,394	316,387	776,408	423,369	353,039
-						
	TA	BLE 2b - CAR	RYOVER (ST	TOCKS)		
U.S.Carryover						
Apr. 1	1,569,396	1,409,649	159,747	1,621,970	1,399,124	222,846
U.S.Carryover Sept. 30	1,838,945	1,650,137	188,808	1,728,166	1,606,093	122,073
Increase	269,549	240,488	29,061	106,196	206,969	Militar States Street
Decrease	option and a special state of the special state of	alpha milita dipida.	completely water	Seas state from	and State Labor	100,773

<sup>(1)</sup> Tables 1b, 1939-40 Annual Report.

<sup>(2)</sup> Table 5b.

<sup>(3)</sup> Table 8.

<sup>(4)</sup> Includes reclaimed gum rosin.

<sup>(5)</sup> Tables 9b - 11b.

## DETAILS AND SUMMARY OF TURPENTINE CARRYOVER (Bbls. 50 gals.) (At close of Sept. 30)

4		<u>1940</u>			<u>1939</u>	
		Sept. 30			Sept. 30	
	m - 1 - 1	Q	177 2	m - 1 - 2	O	Was a d
	<u>Total</u>	<u>Gum</u>	Wood	<u>Total</u>	Gum	Wood
<u>T</u> A	BLE 3a - D	ETAILS OF	TURPENTINE	<u>CARRYOVER</u>		
Production Points						
Gum Stills <sup>1</sup>	20,320	20,320		13,723	13,723	
Wood Plants1						
Steam Dist.2	22,613		22,613	6,419	THE SECOND	6,419
Sulphate	5,249	diding dyappy sample	5,249	3,692		3,692
Dest. Dist.	492	\$175 page with miles with many wines,	492	622	eran ang energ	622
Total	48,674	20,320	28,354	24,456	13,723	10,733
Sou.Concent.Points						
Savannah <sup>3</sup>	11,799	11,799		26,243	26,243	
Jacksonville <sup>3</sup>	25,607	25,607	Older Street March	49,500	49,500	er e e e e e e e e e e e e e e e e e e
Pensacola <sup>3</sup>	10,236	10,236	took of the same	19,902	19,902	
Other Sou. Ports	18,643	18,643	and and and	45,141	45,141	WIGHT riginal Plants
Interior Yards	_70,268	70,268	-	75,590	75,590	-
Total	136,553	136,553		216,376	216,376	
<u>Distrib. Points</u>						
Eastern	17,739	12,331	5,408	9,770	6,591	3,179
Central	19,978	12,939	7,039	21,229	16,309	4,920
Western	9,788	7,517	2,271	<u>3,534</u>	2,109	1,425
Total4	47,505	32,787	14,718	34,533	25,009	9,524
Industrial Plants	14 907	9 670	6 137	17 004	10 750	E 150
<u>Industrial Plants</u> <sup>5</sup>	14,807	8,670	6,137	17,904	12,752	5,152
:	TABLE 4a -	SUMMARY OF	TURPENTI	NE CARRYOVI	<u>er</u>	
Production Points	48,674	20,320	28,354	24,456	13,723	10,733
Sou.Concent.Points	136,553	136,553		216,376	216,376	Allega (Miles) Allega
Distrib. Points	47,505	32,787	14,718	34,533	25,009	9,524
Industrial Plants	14,807	8,670	6,137	17,904	12,752	5,152
Total in U. S.	247,539	198,330	49,209	293,269	267,860	25,409
At and afloat to Londo	n¢					

<sup>(1)</sup> Compiled from reports by producers and factors.

<sup>(2)</sup> Does not include by-products resulting from making paler grades from FF wood rosin.

<sup>(3)</sup> Official Board of Trade and Chamber of Commerce reports.

<sup>(4)</sup> Compiled from reports of individual distributors.

<sup>(5)</sup> Compiled from reports of individual consumers.

<sup>(6)</sup> Not available.

# DETAILS AND SUMMARY OF ROSIN CARRYOVER (Bbls. 500 lbs. gross) (At close of Sept. 30)

•		<u>1940</u> Sept. 30			<u>1939</u> Sept. 30	
	<u>Total</u>	Gum	Wood	<u>Total</u>	Gum	Wood
	TABLE 3b -	DETAILS OF R	OSIN CARRY	OVER		
Production Points						
Gum Stills <sup>1</sup>	60,550	60,550		81,917	81,917	
Wood Plants, 1						
Steam Dist.2	111,184	deale Cody String	111,184	60,505	describera descri	60,505
Sulphate	777		777	4,471		4,471
Dest. Dist.						
Total	172,511	60,550	111,961	146,893	81,917	64,976
Con Concent Boints						
Sou. Concent.Points Savannah <sup>3</sup>	173,728	173,728		263,489	263,489	
Jacksonville <sup>3</sup>	317,776	317,776		330,603	330,603	
Pensacola <sup>3</sup>	51,961	51,961		66,738	66,738	
Other Sou.Ports	256,913	256,913		264,158	264,158	
Interior Yards	556,319	556,319		390,090	390,090	
Total	1,356,697	1,356,697	OR HAND	1,315,078	1,315,078	
10 (41	1,000,007	1,000,007	144 -15119	1,313,078	1,010,070	-
Distrib. Points					•	
Eastern	10,056	4,029	6,027	7,165	3,785	3,380
Central	7,582	3,671	3,911	7,986	5,657	2,329
Western	1,530	830	700	890	499	391
Total 4	19,168	8,530	10,638	16,041	9,941	6,100
* O O O O	20,200	3,000	10,000	10,011	0,041	0,100
Industrial Plants <sup>5</sup>	290,569	224,360	66,209	250,154	199,157	50,997
	TABLE 4b -	SUMMARY OF RO	OSIN CARRY	OVER_(Stocks	1	
Production Points	172,511	60,550	111,961	146,893	81,917	64,976
Sou.Concent.Points	1,356,697	1,356,697	described dates	1,315,078	1,315,078	
Distrib. Points	19,168	8,530	10,638	16,041	9,941	6,100
Industrial Plants	290,569	224,360	66,209	250,154	199,157	50,997
Total in U.S.	1,838,945	1,650,137	188,808	1,728,166	1,606,093	122,073

<sup>(1)</sup> Compiled from reports by producers and factors.

<sup>(2)</sup> Does not include by-products resulting from making paler grades from FF wood Rosin.

<sup>(3)</sup> Official Board of Trade and Chamber of Commerce Reports.

<sup>(4)</sup> Compiled from reports of individual distributors.

<sup>(</sup>E) Compiled from reports of individual consumers.

### DETAILS OF PRODUCTION

(By naval stores seasons, beginning Apr. 1 and ending Mar. 31)

		•	1940-41		0	1939-40	7
		6 mos.	(Apr S	Sept.)	6 mos.	(Apr :	Sept.)
		<u>Total</u>	Gum	Wood	<u>Total</u>	Gum	<u>boow</u>
	TABLE	5a - PRODUCT	TION OF TU	RPENTINE (I	Bbls. 50 gals	.)	
Gum		247,497	247,497		270,167	270,167	Free Active Service
Wood,S	Steam Dist	76,881		76,881	66,234		66,234
" S	Sulphate	22,955	haland aggregal Regions	22,955	15,300	Manual Military Street	15,300
" D	Dest. Dist.	2,859	make make the CONTRACTOR	2,859	3,001		3,001
	Total	350,192	247,497	102,695	354,702	270,167	84,535
	TABLE	5b - PRODUC	rion of Ro	SIN (Bbls.	500 lbs. gro	ss)	
Gum		803,994	803,994		900,442	900,442	Note that the second se
Reclai	med (Gum)	15,998	15,998	**** (Sec.)	17,331	17,331	
Wood,S	Steam Dist.	476,127	man resident contra	476,127	420,031	-	420,031
" S	Sulphate(Table S	ōc)		may star sum			denil care may
" D	Dest. Dist.	Control to transport the control of		Wanting Stated Assessed			continuelity worked two And
	Total	1,296,119	819,992	476,127	1,337,804	917,773	420,031

### TABLE 5c - PRODUCTION OF "SULPHATE WOOD ROSIN"

3855 tons liquid rosin from 7709 tons liquid rosin which 267 tons of abietic acid were produced.

### TABLE 6 - PRODUCTION OF GUM TURPENTINE BY STATES

	Barrels	<u>Percentage</u>	Barrels	Percentage
North Carolina	1	1.	1.	1
South Carolina	4,867	1.97	6,548	2.43
Georgia	156,785	63.36	160,073	59.26
Florida	58,959	23.83	71,328	26.40
Alabama	20,175	8.15	22,404	8.28
Mississippi	5,364	2.13	7,358	2.72
Louisiana	1,347	0.55	2,456	0.91
Texas	2:	2 trace communications	2	error project design
Total	247,497	100.0	270,167	100.0

<sup>(1)</sup> Combined with South Carolina.

<sup>(2)</sup> Combined with Louisiana.

### UNITED STATES IMPORTS OF NAVAL STORES

(By naval stores seasons beginning April 1 and ending the following March 31)

TABLE 7 - IMPORTS, SPIRITS OF TURPENTINE
(Bbls. - 50 gal.)

Shipped from	<u>1940-41</u> AprSept. 6 mos.	<u>1939-40</u> AprSept. 6 mos.	<u>1939-40</u> AprMarch 12 mos.
Austria	0	0	0
Canada	0	0	0
France	0	0	0
Germany	0	0	0
Greece	0	0	0
Italy	0	0	0
Mexico	11,008	11,636	16,464
Netherlands	0	0	0
Norway	0	0	0
Portugal	0	0	0
Soviet Russia	0	0	0
Spain	0	0	0
Sweden	0	0	0
United Kingdom	0	0	0
Other countries	0	28	28
Total	11,008	11,664	16,492

## TABLE 8 - IMPORTS, ROSIN

(Bbls. 500-lbs. gross)

Austria	0	0	0
Canada	0	0	0
France	0	1	1
Germany	0	0	0
Greece	0	4	0
Italy	0	0	0
Mexico	0	2,160	2,372
Netherlands	0	0	0
Norway	0	0	0
Portugal	0	0	0
Soviet Russia	0	0	0
Spain	0	0	0
Sweden	0	0	0
United Kingdom	0	0	0
Other Countries	0_	10	25
Total	0	2,175	2,398

(Source of Information - Bureau of Foreign and Domestic Commerce.)

Note: As government records of imports of turpentine and rosin do not require any declaration as to whether they are gum or wood products, the available statistics in consequence show only total turpentine and total rosin imports.

### UNITED STATES EXPORTS OF TURPENTINE

(By naval stores seasons beginning April 1 and ending the following March 31.)

TABLE 9a - TOTAL EXPORTS OF TURPENTINE

(Bbls. - 50 gal.)

	(DDIS 00 gai.)		
Destination	<u>1940–41</u>	<u> 1939–40</u>	<u>1939-40</u>
	AprSept.	AprSept.	AprMarch
	6 mos.	6 mos.	12 mos.
United Kingdom	35,401	68,621	115,153
Germany and N. Europe	398	22,110	36,688
Italy and S. Europe	3,850	4,044	12,283
Argentine	1,529	2,172	4,357
Brazil	1,283	1,600	3,531
Other South America	2,026	2,857	5,165
Japan	0	27	37
Australia and New Zealand	4,707	8,548	20,282
Netherlands East Indies	1	58	6'7
Canada	12,744	16,011	28,416
All other Exports	5,803	5,077	10,459
Total	67,742	131,125	236,438
TABLE 10a	- EXPORTS, GUM SPIR	ITS_OF_TURPENTINE	
United Kingdom	29,044	58,927	93,265
Germany and N. Europe	398	19,128	34,301
Italy and S. Europe	572	2,009	4,116
Argentine	1,118	1,888	3,778
Brazil	809	1,170	2,355
Other South America	1,653	2,467	4,355
Japan	0	27	37
Australia and New Zealand	3,776	6,242	15,278
Netherlands East Indies	0	55	58
Canada	10,907	13,621	24,773
All other Exports	4,930	_3,332	7,368
Total	53,207	108,866	189,684
10 (41	30,201	108,000	109,004
TABLE	11a - EXPORTS, WOOD	TURPENTINE	
United Kingdom	6,357	9,694	21,888
Germany and N. Europe	0	2,982	4,387
Italy and S. Europe	3,278	2,035	8,167
Argentine	411	284	579
Brazil	474	430	1,176
Other South America	373	390	810
Japan	0	0	0
Australia and New Zealand	931	2,306	5,004
Netherlands East Indies	1	3	9
Canada	1,837	2,390	3,643
All other Exports	<u>873</u>	<u>1,745</u>	<u>3,091</u>
Total	14,535	22,259	48,754

(Source of information - Bureau of Foreign and Domestic Commerce)

### UNITED STATES EXPORTS OF ROSIN

(By naval stores seasons beginning April 1 and ending the following March 31.)

TABLE 9b - TOTAL EXPORTS OF ROSIN¹

(Bbls. - 500 lbs. gross)

•			
Destination	1940-41	1939-40	1939-40
	AprSept.	AprSept.	AprMarch
	6 mos.	6 mos.	12 mos.
48		·	
United Kingdom	98,207	114,914	291,481
Germany and N. Europe	8,132	140,201	224,233
Italy and S. Europe	12,077	2,929	30,464
Argentine	17,970	24,247	55,302
Brazil	26,734	38,258	72,372
Other South America	16,646	22,160	42,772
Japan	26,741	24,506	43,841
Australia and New Zealand	23,534	14,614	44,486
Netherlands East Indies	9,484	18,344	33,729
Canada	32,877	27,749	61,902
All other Exports	<u>33,387</u>	<u>39,832</u>	<u>75,298</u>
Total	305,789	467,754	975,880
TABLE 10	b - EXPORTS OF GU	UM ROSIN	
United Kingdom	56,942	75,077	179,792
Germany and N. Europe	7,178	86,487	134,287
Italy and S. Europe	9,887	1,703	17,938
Argentine	11,546	15,748	32,260
Brazil	4,434	9,477	18,662
Other South America	- 7,323	12,540	25,061
Japan	18,175	19,221	35,476
Australia and New Zealand	14,695	11,403	34,827
Netherlands East Indies	5,385	9,893	16,068
Canada	18,935	19,549	42,676
All other Exports	20,610	28,512	51,798
Total	175,110	289,610	588,845
TABLE 1	1b - EXPORTS OF V	WOOD ROSIN¹	
United Kingdom	41,265	39,837	111,689
Germany and N. Europe	954	53,714	89,946
Italy and S. Europe	2,190	1,226	12,526
Argentine	6,424	8,499	23,042
Brazil	22,300	28,781	53,710
Other South America	9,323	9,620	17,711
Japan	8,566	5,285	8,365
Australia and New Zealand	8,839	3,211	9,659
Netherlands East Indies	4,099	8,451	17,661
Canada	13,942	8,200	19,226
All other Exports	<u>12,777</u>	11,320	23,500
Total	130,679	178,144	387,035

<sup>(1)</sup> Includes product commonly referred to as "B Wood Rosin." Reported exports "sulphate wood rosin" including lignin liquor for Apr.-Sept. 1940, 4,272 tons. Estimated one-half of this was not "sulphate wood rosin." (Source of information - Bureau of Foreign and Domestic Commerce)

TABLE 12a - REPORTED CONSUMPTION OF TURPENTINE IN UNITED STATES (Bbls.-50 gal.)
(By naval stores seasons beginning April 1 and ending the following March 31)

Season 1940-41 Season

1939-40

	( A	prSept.	)	(Apr	Sept	. )
		6 mos.	,	6	mos.	
	Total	Gum <sup>1</sup>	Wood1	Total	Gum <sup>2</sup>	Wood 1
Abattoirs	0			0		
Adhesives & plastics2	121			296		
Asphaltic products	0			1		
Automobiles & wagons	276			203	N	И
Chemicals & pharmaceuticals	16,281			9,971	0	0
Ester gum & synthetic resins	0			0	t	t
Foundries & f'dry supplies	382			322		
Furniture	238			273	A	A
Insecticides & disinfectants	205			225	v	v
Linoleum & floor covering	30			69	a	a
Matches	0			0	i	i
Oils & greases	47			15	1	1
Paint, varnish & lacquer2	25,888			29,682	a	a
Paper & paper size	0			0	Ъ	ь
Printing ink	86			251	1	1
Railroads & shipyards	2,968			2,343	е	е
Rubber	108			75		
Shoe polish & shoe mat'ls	5,584			4,888		
Soap .	7			5		
Other industries	498	STATE OF THE ABOUT DAY OF	ACAT grant taken tyelen allaki salam	687	MICHIGAN BUTTON	recorded processing along
Total industrial reported	52,719	27,696	25,023	49,306		
Not accounted for <sup>3</sup>	213,467	147,215	66,252	206,989		
Apparent U. S. consumption4	266,186	174,911	91,275	256,295		100

<sup>(1)</sup> Separation of gum and wood turpentine consumption will be limited for the present to the total reported.

<sup>(2)</sup> Redistribution of reported consumption upon late reports changes 1939-40 figures.

<sup>(3)</sup> Principally unreported distribution of turpentine through retailers who sell in small quantities to ultimate consumers.

<sup>(4)</sup> From Table la, page 1.

TABLE 12b - REPORTED CONSUMPTION OF ROSIN IN UNITED STATES (Bbls.-500 lbs.)
(By naval stores seasons beginning April 1 and ending the following March 31)

		Season			Season	
		1940 - 41		1	939 <b>-</b> 4	<u>o</u>
	( A	prSept.)		(Ap	orSept	.)
		6 mos.		(	6 mos.	
•	<u>Total</u>	Gum 1	Wood 1	Total	Gum 1	Wood 1
Abattoirs	317			657		
Adhesives & plastics	8,295			7,848		
Asphaltic products	698			576		
Automobiles & wagons	294			257	N	N
Chemicals & pharmaceuticals	91,757			76,748	0	0
Ester gum & synth. resins	61,318			68,683	t	t
Foundries & f'dry supplies	3,854			4,603		
Furniture	8			16	A	A
Insecticides & disinfectants	2,200			2,409	V	V
Linoleum & floor covering	18,274			14,803	a	а
Matches	2,759			1,332	i	i
Oils & greases	14,273			13,787	1	1
Paint, varnish & lacquer	78,755			74,243	а	a
Paper & paper size	166,296			172,108	b	Ъ
Printing ink	6,460			5,603	1	1
Railroads & shipyards	1,322			495	е	е
Rubber	2,929			2,345		
Shoe polish & shoe mat'ls	3,868			5,279		
Soap	96,403			110,275		
Other industries	2,771			2,091		
Total industrial reported	562,851	290,228	272,623	564,158		
Not accounted for2	157,930	114,166	43,764	212,250		
Apparent U. S. consumption3	720,781	404,394	316,387	776,408		

<sup>(1)</sup> Separation of gum and wood rosin consumption will be limited for this year to the total reported.

<sup>(2)</sup> Principally unreported industrial consumption of rosin and rosin for distribution through retailers who sell in small quantities to ultimate consumers.

<sup>(3)</sup> From Table 1b, page 2.

TABLE 13 - WEICHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM SPIRITS OF TURPENTINE - 1921-22 to 1940-41 (Based upon Wednesdays and Saturdays closing Savannah Prices)2

Season	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
						Cent	Cents per Gallon	a110n					
1921-22	E3.17	€1.83	£2.62	£3.06	56.55	65.15	69.04	73.44	74.14	83.86	86.07	80.92	62.62
1922-23	79.50	86.07	106.54	113.07	110.61	123.31	145.94	151.25	130.71	145.87	143.29	147.53	119.82
1523-24	145.32	105.48	54.74	88.73	88.83	91.61	83.86	88.50	86.36	94.88	95.37	55.72	55.22
1524-25	91.82	83.49	77.63	77.66	82.99	82.28	81.43	79.24	77.64	86.40	87.95	86.00	81.30
1525-26	87.39	97.39	92.48	80.08	95.29	106.25	105.56	104.79	93.77	29.72	65.69	53.81	66.66
1926-27	89.86	79.67	80.14	82.07	89.31	86.00	84.75	82.69	80.85	76.07	68.00	67.38	82.62
1927-28	60.61	56.41	51.24	50.64	52.31	49.25	46.71	44.36	49.49	55.03	54.94	54.82	51.38
1928-29	52.06	47.87	50.87	49.83	47.58	46.40	48.18	54.22	55.50	56.47	53.16	52.42	50.54
1929-30	48.78	48.90	46.83	47.11	46.68	49.74	50.82	47.85	48.13	49.42	50.12	50.67	48.28
1930-31	48.42	43.51	41.33	37.56	35.32	38.26	35.60	37.03	36.14	38.11	39.97	47.81	39.34
1931-32	50.44	49.42	50.69	39.77	31.40	31.88	31.17	35.21	33.83	34.68	34.84	40.06	40.10
1932-33	39.50	39.44	38.64	35.94	37.68	41.09	40.86	39.71	37.04	39.88	39.75	39.46	38.82
1933-34	37.88	42.47	40.39	46.39	42.83	41.97	40.81	42.14	42.07	47.44	57.00	55.00	42.72
1934-35	53.66	50.81	46.44	42.82	41.83	41.19	46.59	48.00	46.46	49.59	50.53	49.71	45.64
1935-36	47.37	47.07	44.46	42.40	38.47	40.91	45.76	44.92	43.96	45.19	44.44	39.31	43.56
1936-37	37.43	36.26	35.86	36.44	38.73	37.19	36.33	38.25	41.59	43.13	41.84	39.01	37.48
1937-38	35.97	35.83	34.07	33.44	31.94	29.93	27.28	26.92	26.14	28.18	26.47	25.42	31.36
1938-39	23.18	22.69	22.56	23.24	22.53	20.92	22.81	22.32	22.31	24.78	25.56	28.42	22.61
1939-40	24.96	23.93	24.00	24.11	23.72	26.11	27.16	25.72	27.00	30.17	32.91	31.67	25.31
1940-41	28.78	27.65	26.25	26.693	28.69	30.80							
					-		the Older named in column 2 in column 2						

menthly price by the combined reported receipts during that menth at Savannah, Jacksonville, and Pensacola and dividing the total of these figures for the season by the total receipts for that season, thereby giving the months of heavy receipts and of low receipts their proper relative value. The season average price was obtained by multiplying each (1) The monthly prices were obtained by averaging the Hednesday and Saturday closing prices.

Fridays prices used for 1938-39, (2) Wednesdays and Fridays closing Savannah prices used for December, January and February, for 1936-37, and 1937-38. 1939-40 and 1940-41 when there was no quoted Saturday market.

<sup>(3)</sup> To complete the table, beginning July 1, 1940, we have added 6 cents per gallon to the Savannah prices.

JOURNAL OF TRADE, DAILY MARKET PEFURTS OF THE SAVANNAH EXCHANGE, JACKSONVILLE AND PENSACOLA CHAMBERS OF COMMERCE. Economic Analysis Unit, General Sources of data: Prices, Florida inspections and monthly receipts at Savannah, Jacksonville and Pensacola are taken from the NAVAL STORES REVIEW AND Crops Section, Agricultural Adjustment Administration.

WEICHTED AVERAGE MONTHLY AND SEASON PRICES OF GUM ROSIN (280-1b. bbls.) - 1921-22 to 1940-411 (Based upon Wednesdays and Saturdays closing Savannah Prices) 2 ı TABLE 14

Season	Apr.	May	May June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Average
			In doll	ars per	barrel o	of 280 pounds	unds gross	ss weight	ىب				district and the same and the s
1921-22	4.00	4.42	3.87	3.78	4.00	4.39	4.34		4.47	4.21	4.22	4.10	4.20
1922-23	4.35	4.79	5.09	5.23	5.25	5.52	5.75	5.48	5.14	5.07	5.15	5.17	5.20
1923-24	4.96	4.88	4.82	4.78	4.66	4.62	4.57	4.44	4.80	4.88	4.69	4.74	4.67
1924-25	4.81	4.88	4.72	4.71	4.94	5.20	5.99	6.46	6.49	7,19	7.28	7.24	5,61
1925-26	7.52	9.01	8.78	9.15	10.22	13.02	14,33	14.22	13.05	12.09	13.34	12.66	11.11
1926-27	11.66	10.42	12.18	13.09	12.53	13.92	12.32	11.64	11.64	11.98	11.98	10.42	12.20
1927-28	9.77	9.11	8.46	8.32	8.96	8.47	7.64	6.87	7.64	8.61	8.38	8.58	8.35
1928-29	8.31	7.68	8.24	8.53	8.32	8.06	8.20	8.53	8.57	8.57	8.36	8.08	8,29
1929-30	7.50	7.39	7.31	7.49	7.44	78.7	8.16	7.62	7.34	7.48	7.45	7.22	7.54
1930-31	6.85	6.16	5.65	4.78	4.42	4.77	4.37	4.45	4.46	4.30	4.52	4.95	5.02
1931-32	4.96	5.01	5.26	3.95	3.12	3.04	2.95	3.27	3.10	3.10	3.18	3.67	3.89
1932-33	2.98	2.91	2.74	2.54	2.32	3.23	3.07	2.94	2.92	2.98	2.90	2.90	2,83
1933-34	2.95	3.54	3.53	4.09	3.83	3.91	3.86	3.92	3.90	4.24	5.04	5.06	3.88
1934-35	5.09	4.87	4.55	4.30	4.37	4.43	4.52	4.45	4.48	4.73	4.86	4.79	4.55
1935-36	4.67	4.72	4.58	4.44	4.12	4.38	4.81	4.71	4.55	4.60	4.57	4.60	4.54
1936-37	4.38	4.32	4.70	5.42	6.68	00.9	6.23	7.26	9.28	10.20	9.76	8.97	6.42
1937-38	8.07	8.30	8.15	8.00	7.98	8.03	7.35	6.21	5.55	5.92	5.38	4.73	7.35
1938-39	4.87	4.67	4.81	5.15	4.98	4.72	5.28	5.64	5.09	5.12	5.29	5.79	5,02
1939-40	5.22	5.19	5.34	5.49	5.34	5.66	5.73	5.54	5.39	5.54	5.51	5.59	5.44
1940-41	5.20	5.06	4.69	4.00	4.46	4.21							

Note: Rosin Grades included in average prices follow -- X, WW, WG, N. M. K, I, H. G, F, E, D, B.

(1) The monthly prices were obtained by multiplying the average of the Wednesday and Saturday prices of each grade by the number of barrels of each grabe monthly price by the combined reported receipts during that menth at Savannah, Jacksonville and Pensacola and dividing the total of these figures for the season by the total receipts for the season, thereby giving the months of heavy receipts and of low receipts their propor relative value. Florida during that month, thereby giving the proper relative value to each grade. The season average price was obtained by multiplying each reported as inspected in Florida during that month, and dividing the lotal of the resulting figures by the total number of barrels inspected

(2) Wednesdays and Fridays closing Savannah prices used for December, January and February for 1936-37 and 1937-38. Fridays prices used for 1938-39 and and 1940-41 when there was no quoted Saturday market.

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